

Katsuhiko Nomura

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Phase Transitions, Thermal Expansions, Chemical Expansions, and CO ₂ Resistances of Ba(Ce _{0.8-x} Zr _x Y _{0.1} Yb _{0.1})O _{3-δ} (x = 0.1, 0.4) Perovskite-Type Proton Conductors. <i>Journal of the Electrochemical Society</i> , 2022, 169, 024516.	2.9	6
2	Protonic Ceramic Fuel Cell with Bi-Layered Structure of BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O _{3-δ} Functional Interlayer and BaZr _{0.8} Yb _{0.2} O _{3-δ} Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021, 168, 124504.	2.9	13
3	Solubilization of Rhodium in Hydrochloric Acid Using an Alkali Metal Salt Method. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 377-385.	2.1	14
4	Massive red shift of Ce ³⁺ in Y ₃ Al ₅ O ₁₂ incorporating super-high content of Ce. <i>RSC Advances</i> , 2020, 10, 12535-12546.	3.6	32
5	Near room temperature synthesis of perovskite oxides. <i>Ceramics International</i> , 2019, 45, 24936-24940.	4.8	9
6	Nanocomposite electrodes for high current density over 3 A cm ⁻² in solid oxide electrolysis cells. <i>Nature Communications</i> , 2019, 10, 5432.	12.8	79
7	A Key for Achieving Higher Open-Circuit Voltage in Protonic Ceramic Fuel Cells: Lowering Interfacial Electrode Polarization. <i>ACS Applied Energy Materials</i> , 2019, 2, 587-597.	5.1	28
8	Effect of Ni diffusion into BaZr _{0.1} Ce _{0.7} Y _{0.1} O _{3-δ} electrolyte during high temperature co-sintering in anode-supported solid oxide fuel cells. <i>Ceramics International</i> , 2018, 44, 3134-3140.	4.8	44
9	Unusually Small Thermal Expansion of Ordered Perovskite Oxide CaCu ₃ Ru ₄ O ₁₂ with High Conductivity. <i>Materials</i> , 2018, 11, 1650.	2.9	5
10	Improved transport property of proton-conducting solid oxide fuel cell with multi-layered electrolyte structure. <i>Journal of Power Sources</i> , 2017, 364, 458-464.	7.8	22
11	Additive effect of NiO on electrochemical properties of mixed ion conductor BaZr _{0.1} Ce _{0.7} Y _{0.1} O _{3-δ} . <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 257-261.		
12	Molten Salt Liquid-Liquid Immiscibility, KNO ₃ (Li _{0.435} Na _{0.315} K _{0.25}) ₂ CO ₃ at 773 K and Cation Distribution between Two Liquids. <i>Journal of the Electrochemical Society</i> , 2016, 163, H584-H587.	2.9	2
13	Neutron diffraction study of LaScO ₃ -based proton conductor. <i>Solid State Ionics</i> , 2014, 262, 841-844.	2.7	14
14	Relationship between crystal structure and oxide-ion conduction in (Ln) ₂ Zr ₂ O ₇ (Ln = Eu, Nd and La) system deduced by neutron and X-ray diffraction. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 205-210.	1.1	20
15	Chemical Reactivities of LaScO ₃ -based Perovskite Oxides and Platinum. <i>Chemistry Letters</i> , 2013, 42, 1268-1270.	1.3	4
16	Noble Metal Collection through Air: Perovskite Oxide as a Novel Collector. <i>ChemPhysChem</i> , 2011, 12, 109-111.	2.1	15
17	Formation of C-type rare earth structures in the Ce _{1-x} NdxO _{2-δ} system: a factor in the decrease in oxide-ion conductivity. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1306-1310.	1.1	17
18	Crystal Structure and Proton Conduction Path of Perovskite-type Oxides by Using a Laboratory X-ray Diffractometer with a Parallel Beam Optics. <i>Nihon Kessho Gakkaishi</i> , 2008, 50, 155-160.	0.0	2

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19	Ultramarine colored: Solid-phase elution of Pt into perovskite oxides. Journal of Materials Research, 2007, 22, 2647-2650.	2.6	8
20	XAFS Analysis of Pt and Pt-Ru Catalysts for PEFCs by In-Situ Measurements under Operating Conditions in the Fluorescence Mode. AIP Conference Proceedings, 2007, , .	0.4	2
21	Transport properties of Ba(Zr _{0.8} Y _{0.2})O ₃ perovskite. Solid State Ionics, 2007, 178, 661-665.	2.7	142
22	Synthesis of Various LaMO ₃ Perovskites in Molten Carbonates. Journal of the American Ceramic Society, 2006, 89, 3610-3616.	3.8	28
23	Proton conduction in doped LaScO ₃ perovskites. Solid State Ionics, 2004, 175, 553-555.	2.7	65
24	High temperature crystallographic study of (La _{0.9} Sr _{0.1})M _{III} O ₃ (M _{III} =Sc, In, and Lu) perovskite proton conductor. Solid State Ionics, 2003, 162-163, 99-104.	2.7	25